

## EAST Search History

| Ref # | Hits | Search Query | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------|-------|------------------|---------|------------------|
| L2    | 385  | 514/520      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L3    | 1697 | 514/269      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L4    | 1001 | 514/345      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L5    | 397  | 514/362      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L6    | 2243 | 514/365      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L7    | 1688 | 514/383      | USPAT | OR               | OFF     | 2007/06/18 13:09 |
| L8    | 939  | 514/396      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L9    | 140  | 558/410      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L10   | 427  | 548/203      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L11   | 393  | 548/260      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L12   | 173  | 548/129      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L13   | 493  | 546/329      | USPAT | OR               | OFF     | 2007/06/18 13:10 |
| L14   | 851  | 544/298      | USPAT | OR               | OFF     | 2007/06/18 13:10 |

10/517,977

L1 653 SEA ABB=ON PLU=ON MULLER U?/AU  
L22 1925 SEA ABB=ON PLU=ON MUELLER U?/AU  
L23 0 SEA ABB=ON PLU=ON L19 AND L20 AND L21  
L24 1 SEA ABB=ON PLU=ON L19 AND L20 AND L22  
L25 2 SEA ABB=ON PLU=ON L16 NOT L24

FILE 'HCAPLUS' ENTERED AT 13:03:12 ON 22 MAY 2007  
D QUE NOS L24  
D IBIB ED ABS L24 1

=> file reg

FILE 'REGISTRY' ENTERED AT 13:03:56 ON 22 MAY 2007  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 21 MAY 2007 HIGHEST RN 935505-97-8  
DICTIONARY FILE UPDATES: 21 MAY 2007 HIGHEST RN 935505-97-8

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when  
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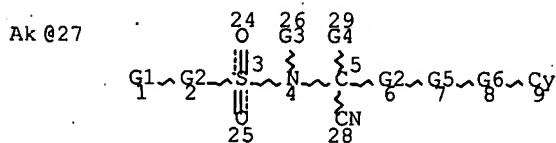
REGISTRY includes numerically searchable data for experimental and  
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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d stat que 115

L13 STR

Cy @10      Cy~O      Cy~S      Cy~N  
11 @12      13 @14      15 @16



## Scientific and Technical Information Center

## SEARCH REQUEST FORM

Requester's Full Name: Robert (Kerby) Shaw Examiner #: 79521 Date: 3/21/07  
 Art Unit: 1626 Phone Number: 2-0707 Serial Number: 10/517,977  
 Location (Bldg/Room#): REF (Mailbox #): 5215 Results Format Preferred (circle): PAPER DISK  
 \*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Alpha-sulfacyclon

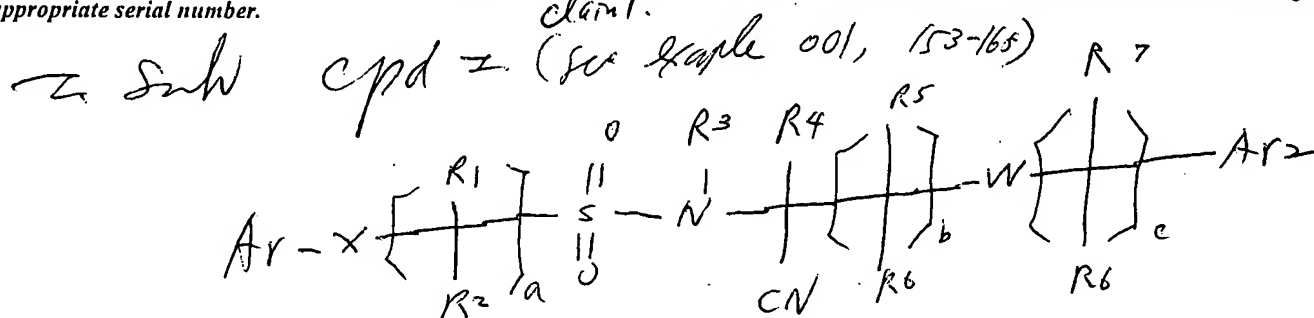
Inventors (please provide full names): Leberle et al

Earliest Priority Date: \_\_\_\_\_

## Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



z sub methods of use  
 of cpd z

\* Ar1, Ar2 is aryl,  
 or heteroaryl, or aryl-heteroaryl

\* W is O, S, N

X is O, S, N

\* a, b is 1-3

c, m is 0, 1, 2